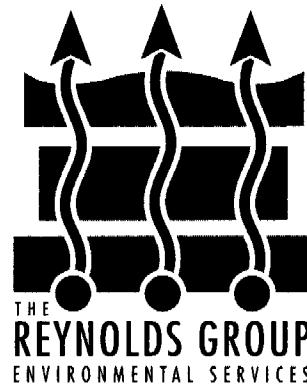


JW FILE

SDMS DOCID # 1150087



## **CLARIFIER AND PIPING REMOVAL CLOSURE REPORT**

**BALBOA PACIFIC  
11240 BLOOMFIELD AVENUE  
SANTA FE SPRINGS, CALIFORNIA**

**AUGUST, 1997**

**PREPARED FOR:**

**BC Santa Fe Springs, LLC  
717 Lido Park Drive  
Newport Beach, CA 92663**

**TRG Number 5033-BC**

## TABLE OF CONTENTS

### CLARIFIER AND PIPING REMOVAL CLOSURE REPORT

BALBOA PACIFIC  
11240 BLOOMFIELD AVENUE  
SANTA FE SPRINGS, CALIFORNIA

<b>EXECUTIVE SUMMARY.....</b>	<b>1</b>
<b>1.0 INTRODUCTION.....</b>	<b>2</b>
1.1 Involved Parties.....	2
<b>2.0 GENERAL SITE CHARACTERISTICS.....</b>	<b>2</b>
2.1 Site Description.....	2
2.2 Site Lithology.....	3
<b>3.0 CLARIFIER AND PIPING REMOVAL .....</b>	<b>3</b>
3.1 Field Activities and Observations.....	3
3.2 Soil Sampling Procedures and Rationale .....	4
3.3 Laboratory Analyses and Results .....	5
<b>4.0 CONCLUSIONS &amp; RECOMMENDATIONS .....</b>	<b>5</b>
<b>5.0 LIMITATIONS .....</b>	<b>6</b>

## **FIGURES**

FIGURE 1 Site Location Map

FIGURE 2 Plot Plan with Sample Locations

## **APPENDICES**

APPENDIX A Clarifier and Piping Removal Permit

APPENDIX B Laboratory Report and Chain-of-Custody Documentation

APPENDIX C Rinsate Fluid Manifest

APPENDIX D Photographs of the Site

## **CLARIFIER & PIPING REMOVAL CLOSURE REPORT**

**BALBOA PACIFIC  
11240 BLOOMFIELD AVENUE  
SANTA FE SPRINGS, CALIFORNIA**

### **EXECUTIVE SUMMARY**

This report summarizes the removal of one concrete clarifier and associated piping at Balboa Pacific, 11240 Bloomfield Avenue in the City of Santa Fe Springs, State of California (the Site, Figure 1).

On August 27, 1997, one 8 foot by 15 foot by 22 foot deep (8' x 15' x 22') concrete clarifier and approximately 300 feet of associated piping extending east from the clarifier were removed from the Site. Also, a total of ten soil samples were collected: four from each side of the clarifier and six from beneath the former piping as required by the City of Santa Fe Springs Fire Department (SFSFD). One sample, CT-4, showed concentrations of total petroleum hydrocarbons (TPH) as diesel at 1,900 milligrams per kilogram or parts per million (ppm) and traces of toluene and ethylbenzene at 0.36 ppm and 0.01 ppm, respectively. Acetone was also detected in Sample CT-4 at 0.049 ppm. One other sample, CT-1, also indicated slight concentrations of TPH at 43 ppm, but was "non-detect" for benzene, toluene, ethylbenzene and xylenes (BTEX) and for volatile organic compounds (VOC's). All other samples were "non-detect" for TPH, BTEX, and VOC's. All metals results were also within allowable ranges.

Based on the laboratory results and the work performed, we recommend full and unconditional closure of the Site with respect to the clarifier and the piping that were removed.

## **1.0 INTRODUCTION**

### **1.1 Involved Parties**

BC Santa Fe Springs, LLC (the Client) retained The Reynolds Group (TRG, the contractor and consultant) to remove one 8' x 15' x 22' concrete clarifier and associated piping at the site. Required permits were obtained by TRG prior to performing the work.

Regulatory oversight was provided by the SFSFD as represented by Inspector Tom Hall. Excavation of the clarifier and piping was performed by IEM. Rinsing, transportation and disposal of the waste liquids was performed by Cal Vac Environmental. TRG collected the soil samples under the direction of the SFSFD and prepared this closure report. Del Mar Analytical provided laboratory analyses.

## **2.0 GENERAL SITE CHARACTERISTICS**

### **2.1 Site Description**

The Site is currently occupied by Balboa Pacific, a contracting and environmental remediation company. The former clarifier was located on the northern central part of the property behind a shed. Approximately 300 feet of associated piping ran from the clarifier east to the eastern property line (Figure 2). [The piping running west from the clarifier to Bloomfield Avenue was excluded from this scope of work.]

## **2.2     Site Lithology**

Soil encountered during the excavation consisted of brown, fine to coarse, slightly silty sands. During the tank removal and excavation, groundwater was not encountered. According to Nancy in the Hydrology Division of the Los Angeles County Department of Public Works, the nearest well to the Site is located approximately two miles northeast of the site at the intersection of Barton Road and Dupage Avenue (Well No. 1645-H). Depth to groundwater at Well No. 1645-H is 43.1 feet below ground surface.

## **3.0     **CLARIFIER AND PIPING REMOVAL****

### **3.1     Field Activities and Observations**

Prior to performing the work, TRG obtained a closure permit from the SFSFD. A copy of the permit is attached in Appendix A.

Excavation activities starting with the piping removal began at approximately 7:30 a.m. on August 27, 1997, and cleaning of the clarifier commenced at approximately 11:00 a.m. A number of previously unidentified utility lines and pipelines crossed the trench above and below the clarifier line. One private fresh water line was damaged during the work and was repaired. No other lines were damaged. The inside of the clarifier was spray washed and rinsate liquids and solids were removed and properly disposed at DeMenno/Kerdoon, a certified transfer, storage and disposal (TSD) facility in Compton, California. A copy of the rinsate manifest is included in Appendix C. Excavation work continued on August 28, 1997.

After sampling on August 29, the clarifier excavation and pipe trenches were backfilled with one and three-quarters truckloads of imported pea gravel and native soils.

### 3.2 Soil Sampling Procedures and Rationale

Throughout the day of August 29, 1997, a representative from The Reynolds Group collected four soil samples from beneath the former clarifier and six samples from beneath the former piping. Inspector Hall selected the four sample locations at the clarifier and the six sample locations along the piping. He observed most of the sample collection (See Figure 2).

Please note that the bottom of the clarifier was concrete poured in place to 22 feet below ground surface. Because of this, the concrete bottom would have required an extraordinary effort to remove. After discussing the matter with Inspector Hall, he allowed the concrete bottom to remain in place provided that soil samples could be taken by slanting the augers around the bottom. Therefore, four hand-augered samples were collected from beneath the concrete bottom of the clarifier, two more than the normal sampling of the inlet and outlet required under normal permit conditions. The concrete slab bottom was left in place.

Prior to sample collection, the backhoe removed overburden soil in the sampling areas to reach relatively undisturbed soil. Then samples of relatively undisturbed soils were collected from the clarifier and the lines by driving the sampling tubes into the soil with a slide hammer. The ends of the sample tubes were lined with Teflon and capped with polyethylene caps. The soil samples were retained on ice and transported, with chain-of-custody documentation, to Del Mar Analytical of Van Nuys, California.

### **3.3     Laboratory Analyses and Results**

A total of ten samples were collected, four from around the clarifier and six along the former piping (see Figure 2). As required by SFSFD, samples were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015, for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020, for volatile organic compounds (VOC's) by EPA Method 8240, and for CAM/Title 22 Metals.

One sample, CT-4, showed concentrations of TPH as diesel at 1,900 ppm and traces of toluene and ethylbenzene at 0.36 ppm and 0.01 ppm, respectively. Acetone was also detected in Sample CT-4 at 0.049 ppm. One other sample, CT-1, also indicated slight concentrations of TPH at 43 ppm, but was "non-detect" for BTEX and VOC's. All other samples were "non-detect" for TPH, BTEX, and VOC's.

With respect to CAM/Title 22 Metals, all results were also within allowable ranges.

### **4.0     CONCLUSIONS & RECOMMENDATIONS**

The following conclusions are based on the results of the field work conducted at the Site and subsequent laboratory analyses:

- One 8' x 15' x 22' concrete clarifier and approximately 300 feet of associated piping running east from the clarifier were removed from the subject site.
- Ten soil samples were taken in accordance with Inspector Hall's desires, four under the clarifier and six from under the pipelines.

- Two soil samples, CT-1 and CT-4, taken from beneath the former piping showed concentrations of TPH at 43 ppm and 1,900 ppm, respectively. Sample CT-4 also showed traces of toluene (0.36 ppm), ethylbenzene (0.01 ppm), and acetone (0.049 ppm).
- All metals results were within allowable ranges.
- The clarifier excavation and the pipeline excavation were backfilled.

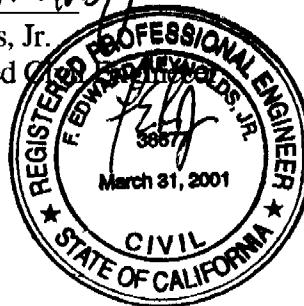
Based on these results and our observations, we recommend full and unconditional closure at this site with respect to the clarifier and the piping that were removed.

## 5.0 LIMITATIONS

This report is based on the information gathered during the course of the work as described in the text and references. Its validity is based on the available facts, circumstances, and data as of the date of the report and TRG takes no responsibility for any subsequent changes in those facts, circumstances, and data.

This report is rendered as of the date hereof and is intended solely for the benefit and use of the client.

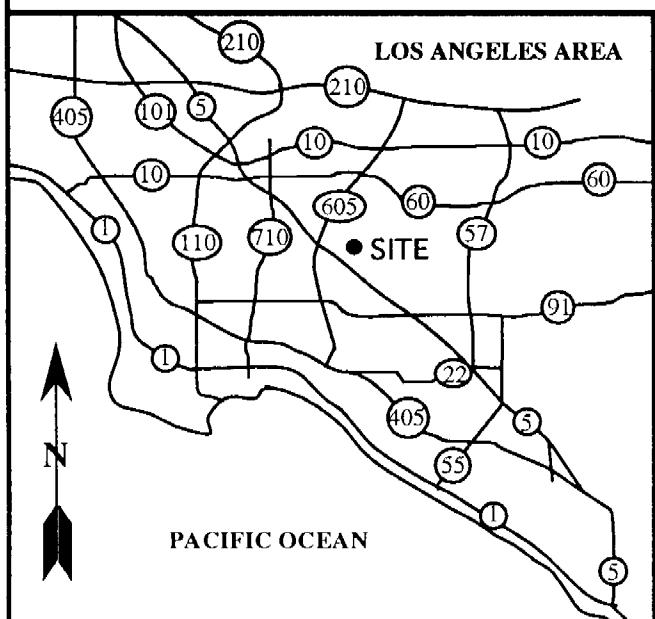
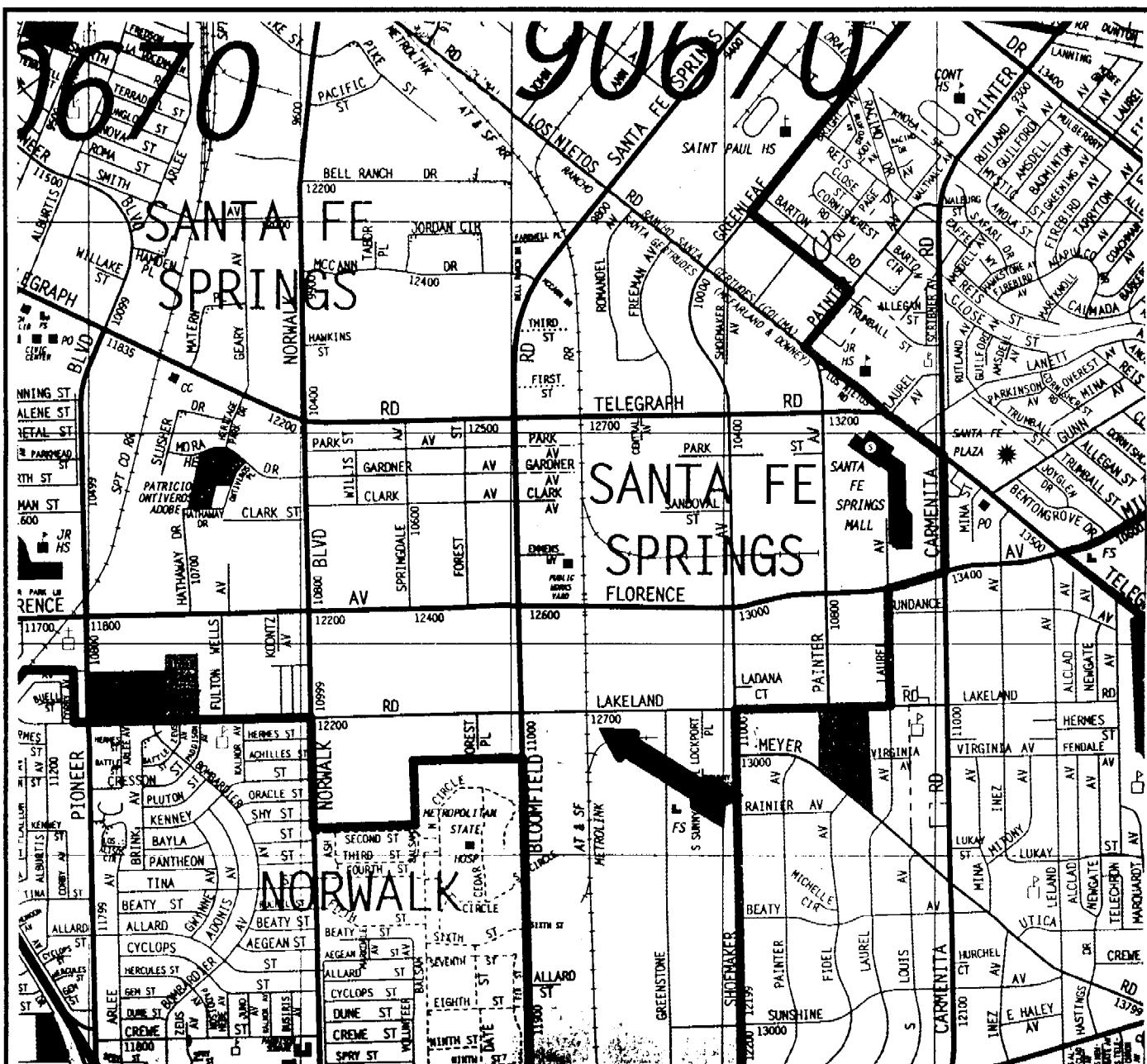
*F. Edward Reynolds, Jr.*  
F. Edward Reynolds, Jr.  
California Registered Civil Professional Engineer  
#38677



*Angel Cardoza, Jr.*  
Angel Cardoza, Jr.  
Environmental Engineer

## **FIGURES**

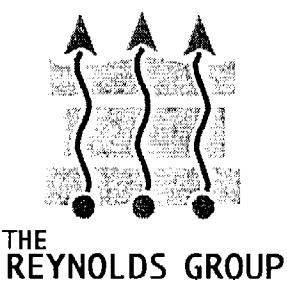
**FIGURE 1**  
**SITE LOCATION MAP**



ADAPTED FROM 1997 L.A. COUNTY THOMAS BROTHERS GUIDE, PAGES 706 & 707.

0 2000 4000

FEET  
APPROXIMATE SCALE



**FIGURE 1**  
**SITE LOCATION MAP**

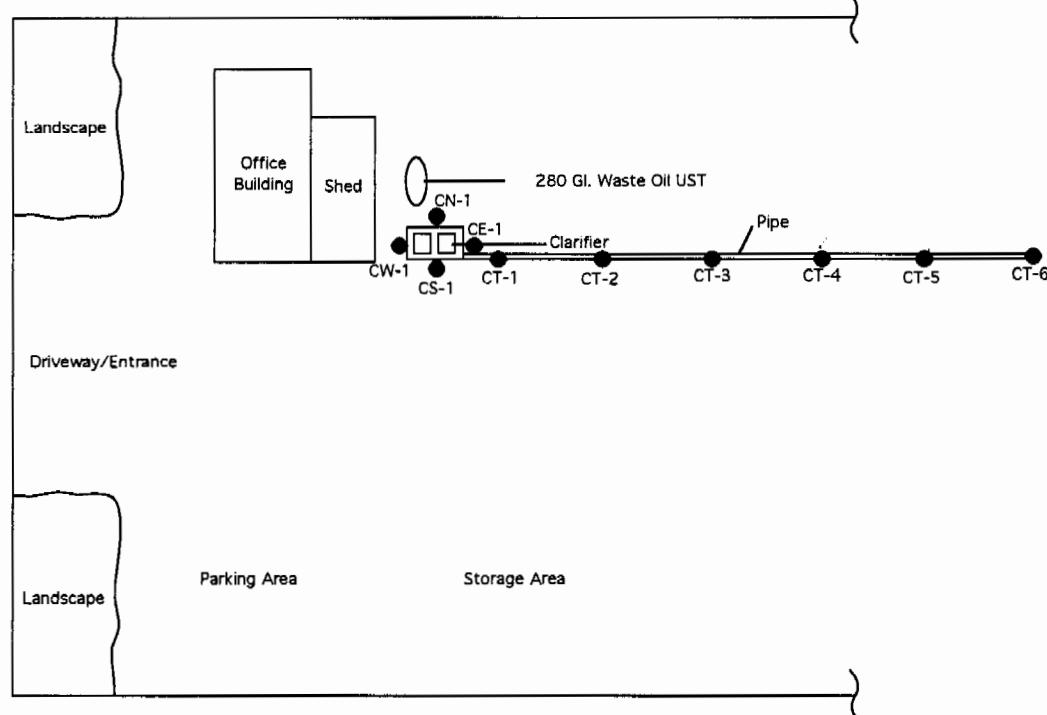
BALBOA PACIFIC  
11240 BLOOMFIELD AVE.  
SANTA FE SPRINGS, CA

AUGUST 1997

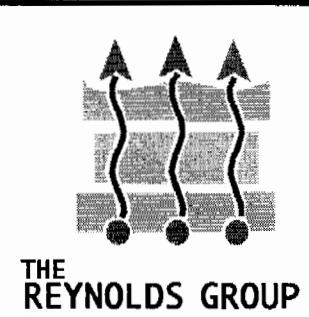
**FIGURE 2**

**SITE PLOT PLAN WITH  
SAMPLE LOCATION**

BLOOMFIELD AVENUE



0 100 200  
FEET  
APPROXIMATE SCALE



THE REYNOLDS GROUP

**CLARIFIER PLOT PLAN  
WITH SAMPLE LOCATION**

BALBOA PACIFIC  
11240 BLOOMFIELD  
SANTA FE SPRINGS, CA

AUGUST 1997

## **APPENDIX A**

**APPENDIX A**

**CLARIFIER REMOVAL PERMIT**

08/15/1997 14:05

714-730-6476

THE REYNOLDS GROUP

PAGE 82

### APPLICATION FOR CLOSURE Industrial Waste Treatment Unit

Fire Department, Environmental Protection Division  
11300 Greenstone Ave., Santa Fe Springs, CA 90670

FOR OFFICE USE ONLY

FEE \$ 114.00CHECK CASH 

## FACILITY / SITE INFORMATION

Company Name: BALBOA PACIFIC  
 Site Address: 112400 BLOOMFIELD  
 Company Contact: TREVOR SANTOCHI

Phone Number: \_\_\_\_\_  
 City: SANTA FE SPRINGS State: CA ZIP: 90670  
 Title: AGENT FOR OWNER

## PROPERTY OWNER INFORMATION

Owner/Operator Name: BC SANTA FE SPRINGS, LLC Phone Number: (714) 723-1981  
 Mailing Address: 717 LIND PARK DRIVE City: NEWPORT BEACH State: CA ZIP: 92663  
 Property Manager (if applicable): \_\_\_\_\_ Phone Number: \_\_\_\_\_

## CONTRACTOR INFORMATION

Contractor Name: THE REYNOLDS GROUP Contractor License No.: 659765  
 Company Name (if applicable): \_\_\_\_\_ Phone Number: (714) 730-5397  
 Mailing Address: P.O. BOX 1996 City: AUSTIN State: CA ZIP: 92781

- 1996

## TYPE OF CLOSURE REQUESTED

- Treatment Unit Removal (See Conditions A, B, C, E and F on the back)  
 Treatment Unit Closure in Place (See Conditions A, B, C, D and F on the back)

## DESCRIPTION OF WASTE GENERATING OPERATIONS BEING CLOSED

Type of Business:	IW Permit No.:
Waste Producing Operations:	
Description of Equipment Being Closed:	

## Please Complete the Following

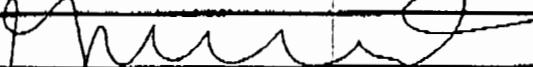
- Has an unauthorized release ever occurred at this site?
- Have structural repairs ever been made to the treatment unit?
- Will new treatment unit(s) be installed after closure?
- Will industrial waste generating operations remain after closure?

YES

\*If the answer is YES to any of the above questions, attach an explanation

**NOTICE:** Any waste remaining in the equipment may be a hazardous waste which must be transported and disposed of pursuant to Chapter 6.5 of the California Health & Safety Code. Failure to comply may be prosecuted as a felony violation.

The applicants' signature certifies, under penalty of perjury, that all statements and disclosures above are true and correct and that they have read and agree to abide by this closure authorization and all conditions and limitations on the reverse side of this form and additional conditions that may be attached.

Applicants Signature: 	Date <u>8/15/97</u>
(Print Name) <u>George R Bravante Jr.</u>	Phone <u>(714) 723-1981</u>
Position: Owner <input checked="" type="checkbox"/> Operator <input type="checkbox"/> Contractor <input type="checkbox"/>	

TO BE FILLED OUT BY SFS FIRE DEPT.  
 PURSUANT TO SECTION 20.36.220 OF THE LOS ANGELES COUNTY CODE ADOPTED BY THE CITY OF  
 SANTA FE SPRINGS, PERMISSION IS HEREBY GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED  
 ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS. THIS AUTHORIZATION EXPIRES  
 180 DAYS FROM THE DATE BELOW.

BY: Trevor Santoche TITLE: Industrial Waste Examiner DATE: 8/22/97

Draft only ! SC 2/6/98

Draft only?

February 6, 1998

Mr. Rusty Turner  
Turner Development Corporation  
1200 Quail Street, Suite 160  
Newport Beach, CA 92660

**SUBJECT: FORMER BALBOA-PACIFIC SITE, 11240 BLOOMFIELD AVENUE,  
SANTA FE SPRINGS, CALIFORNIA**

Dear Mr. Turner:

The Santa Fe Springs Fire Department (SFSFD) has received a letter dated February 2, 1998, from your consultants, Santochi and Bravante, LLC. This letter describes a meeting held on January 30, 1998, at the SFSFD Headquarters between your consultant, Mr Trevor Santochi, Mr. Andrew Keller of Harding Lawson and Associates (HLA), and Steve Chase representing the SFSFD. The issue of Volatile Organic Compound (VOC) site screening was discussed and clarified. The SFSFD concurs with your consultants that the site is adequately screened for VOC's as well as for other potential contamination.

Based on SFSFD review of the available site data, including data related to the underground storage tank and clarifier removal, the SFSFD feels that the known contamination poses no significant threat to public health or the environment, with the exception of petroleum hydrocarbons in the diesel range at sample point C4 indicating around 1900 ppm. Since this figure is above screening levels according to the Los Angeles Regional Water Control Board (RWQCB), this finding is being referred to that agency.

The SFSFD still requests the locating and approved removal or abandonment of known and unknown pipelines, including clarifier lines to the sewer, storm drain connections, or other plumbing. This must be completed before the SFSFD can issue a closure letter. The SFSFD still advises you that pipeline and pipe run issues may raise issues requiring the advice of qualified attorneys or other property and easement specialists.

Assuming no further issues, etc, etc, etc. when you're done with the above, you be done, dude!

signed etc, etc,

STEVE:

PLEASE SEE MY SUGGESTED  
REVISION OF THIS  
SENTENCE - ATTACHED.  
— Tom

The SFSFD still requests the identification, location and approved removal or abandonment of known and unknown pipelines. Particularly, the clarifier discharge line and the unidentified pipelines discovered during the removal of clarifier influent pipeline. The Building and Safety Department requires a sewer permit for the removal or abandonment of a pipeline connected to the sanitary sewer system. Contact the Building and Safety Department located at City Hall, (562) 868-0511, for information on obtaining a sewer permit. A "no further action" letter for the clarifier removal is being withheld until a copy of the sewer permit is submitted to the SFSFD. The removal/abandonment requirements for the unidentified pipelines cannot be determined without information on its past and present usage.

**APPENDIX B**

**APPENDIX B**

**LABORATORY REPORT &**  
**CHAIN OF CUSTODY DOCUMENTATION**



# Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-II, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite I, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1

Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: Aug 30, 1997  
 Analyzed: Aug 30, 1997  
 Reported: Sep 4, 1997

Analysis Method: EPA 5030/CA DHS Mod. 8015/8020  
 First Sample #: GH04465

## VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description	Volatile Fuel Hydrocarbons mg/Kg (ppm)	Benzene mg/Kg (ppm)	Toluene mg/Kg (ppm)	Ethyl Benzene mg/Kg (ppm)	Total Xylenes mg/Kg (ppm)
GH04465	CW-1	N.D.	N.D.	N.D.	N.D.	N.D.
Dilution 1:1	Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015
GH04466	CN-1	N.D.	N.D.	N.D.	N.D.	N.D.
Dilution 1:1	Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015
GH04467	CS-1	N.D.	N.D.	N.D.	N.D.	N.D.
Dilution 1:1	Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015
GH04468	CE-1	N.D.	N.D.	N.D.	N.D.	N.D.
Dilution 1:1	Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015
GH04469	CT-1	N.D.	N.D.	N.D.	N.D.	N.D.
Dilution 1:1	Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015
GH04470	CT-2	N.D.	N.D.	N.D.	N.D.	N.D.
Dilution 1:1	Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12. Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

### DEL MAR ANALYTICAL (ELAP #1197)



Jim Hatfield  
 Project Manager

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI <1 of 28>



Santochi & Bravante  
20 Corporate Plaza  
Newport Beach, CA 92660  
Attention: Trevor Santochi

Client Project ID: 9621-001-1

Analysis Method: EPA 5030/CA DHS Mod. 8015/8020  
First Sample #: GH04471

Sampled: Aug 29, 1997  
Received: Aug 30, 1997  
Extracted: 8/30-9/1, 1997  
Analyzed: 8/30-9/1, 1997  
Reported: Sep 4, 1997

## VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description	Volatile Fuel Hydrocarbons mg/Kg (ppm)	Benzene mg/Kg (ppm)	Toluene mg/Kg (ppm)	Ethyl Benzene mg/Kg (ppm)	Total Xylenes mg/Kg (ppm)
GH04471	CT-3	N.D.	N.D.	N.D.	N.D.	N.D.
Dilution 1:1	Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015
GH04472	CT-4	140	N.D.	0.36	N.D.	N.D.
Dilution 1:40	Reporting Limit:	40	0.20	0.20	0.20	0.60
GH04473	CT-5	N.D.	N.D.	N.D.	N.D.	N.D.
Dilution 1:1	Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015
GH04474	CT-6	N.D.	N.D.	N.D.	N.D.	N.D.
Dilution 1:1	Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12. Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

**DEL MAR ANALYTICAL (ELAP #1197)**

  
Jim Hatfield  
Project Manager





# Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1

Sample Descript: Soil, CW-1  
 Lab Number: GH04465

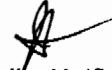
Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: Aug 31, 1997  
 Analyzed: Aug 31, 1997  
 Reported: Sep 4, 1997

## VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone.....	10	.....
Benzene.....	2.0	.....
Bromodichloromethane.....	2.0	.....
Bromoform.....	5.0	.....
Bromomethane.....	5.0	.....
2-Butanone.....	10	.....
Carbon disulfide.....	5.0	.....
Carbon tetrachloride.....	5.0	.....
Chlorobenzene.....	2.0	.....
Chlorodibromomethane.....	2.0	.....
Chloroethane.....	5.0	.....
2-Chloroethyl vinyl ether.....	10	.....
Chloroform.....	60	.....
Chloromethane.....	5.0	.....
1,1-Dichloroethane.....	2.0	.....
1,2-Dichloroethane.....	2.0	.....
1,1-Dichloroethene.....	5.0	.....
cis-1,2-Dichloroethene.....	2.0	.....
trans-1,2-Dichloroethene.....	2.0	.....
1,2-Dichloropropane.....	2.0	.....
cis-1,3-Dichloropropene.....	2.0	.....
trans-1,3-Dichloropropene.....	2.0	.....
Ethylbenzene.....	2.0	.....
2-Hexanone.....	10	.....
Methylene chloride.....	20	.....
4-Methyl-2-pentanone.....	5.0	.....
Styrene.....	2.0	.....
1,1,2,2-Tetrachloroethane.....	2.0	.....
Tetrachloroethene.....	2.0	.....
Toluene.....	2.0	.....
1,1,1-Trichloroethane.....	2.0	.....
1,1,2-Trichloroethane.....	2.0	.....
Trichloroethene.....	2.0	.....
Trichlorofluoromethane.....	5.0	.....
Vinyl acetate.....	5.0	.....
Vinyl chloride.....	5.0	.....
Total Xylenes.....	2.0	.....

Analytes reported as N.D. were not present at or above the reporting limit.

### DEL MAR ANALYTICAL (ELAP #1197)

  
 Jim Hatfield  
 Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	102%
Toluene-d8 (81-117).....	100%
4-Bromofluorobenzene (74-121).....	95%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.



Santochi & Bravante  
20 Corporate Plaza  
Newport Beach, CA 92660  
Attention: Trevor Santochi

Client Project ID: 9621-001-1  
  
Sample Descript: Soil, CN-1  
Lab Number: GH04466

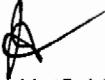
Sampled: Aug 29, 1997  
Received: Aug 30, 1997  
Extracted: Aug 31, 1997  
Analyzed: Aug 31, 1997  
Reported: Sep 4, 1997

### VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone.....	10	.....
Benzene.....	2.0	.....
Bromodichloromethane.....	2.0	.....
Bromoform.....	5.0	.....
Bromomethane.....	5.0	.....
2-Butanone.....	10	.....
Carbon disulfide.....	5.0	.....
Carbon tetrachloride.....	5.0	.....
Chlorobenzene.....	2.0	.....
Chlorodibromomethane.....	2.0	.....
Chloroethane.....	5.0	.....
2-Chloroethyl vinyl ether.....	10	.....
Chloroform.....	60	.....
Chloromethane.....	5.0	.....
1,1-Dichloroethane.....	2.0	.....
1,2-Dichloroethane.....	2.0	.....
1,1-Dichloroethene.....	5.0	.....
cis-1,2-Dichloroethene.....	2.0	.....
trans-1,2-Dichloroethene.....	2.0	.....
1,2-Dichloropropane.....	2.0	.....
cis-1,3-Dichloropropene.....	2.0	.....
trans-1,3-Dichloropropene.....	2.0	.....
Ethylbenzene.....	2.0	.....
2-Hexanone.....	10	.....
Methylene chloride.....	20	.....
4-Methyl-2-pentanone.....	5.0	.....
Styrene.....	2.0	.....
1,1,2,2-Tetrachloroethane.....	2.0	.....
Tetrachloroethene.....	2.0	.....
Toluene.....	2.0	.....
1,1,1-Trichloroethane.....	2.0	.....
1,1,2-Trichloroethane.....	2.0	.....
Trichloroethene.....	2.0	.....
Trichlorofluoromethane.....	5.0	.....
Vinyl acetate.....	5.0	.....
Vinyl chloride.....	5.0	.....
Total Xylenes.....	2.0	.....

Analytes reported as N.D. were not present at or above the reporting limit.

### DEL MAR ANALYTICAL (ELAP #1197)

  
Jim Hatfield  
Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	104%
Toluene-d8 (81-117).....	100%
4-Bromofluorobenzene (74-121).....	97%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.





2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-II, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite I, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1

Sample Descript: Soil, CS-1  
 Lab Number: GH04467

Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: Aug 31, 1997  
 Analyzed: Aug 31, 1997  
 Reported: Sep 4, 1997

### VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone.....	10	.....
Benzene.....	2.0	.....
Bromodichloromethane.....	2.0	.....
Bromoform.....	5.0	.....
Bromomethane.....	5.0	.....
2-Butanone.....	10	.....
Carbon disulfide.....	5.0	.....
Carbon tetrachloride.....	5.0	.....
Chlorobenzene.....	2.0	.....
Chlorodibromomethane.....	2.0	.....
Chloroethane.....	5.0	.....
2-Chloroethyl vinyl ether.....	10	.....
Chloroform.....	60	.....
Chloromethane.....	5.0	.....
1,1-Dichloroethane.....	2.0	.....
1,2-Dichloroethane.....	2.0	.....
1,1-Dichloroethene.....	5.0	.....
cis-1,2-Dichloroethene.....	2.0	.....
trans-1,2-Dichloroethene.....	2.0	.....
1,2-Dichloropropane.....	2.0	.....
cis-1,3-Dichloropropene.....	2.0	.....
trans-1,3-Dichloropropene.....	2.0	.....
Ethylbenzene.....	2.0	.....
2-Hexanone.....	10	.....
Methylene chloride.....	20	.....
4-Methyl-2-pentanone.....	5.0	.....
Styrene.....	2.0	.....
1,1,2,2-Tetrachloroethane.....	2.0	.....
Tetrachloroethene.....	2.0	.....
Toluene.....	2.0	.....
1,1,1-Trichloroethane.....	2.0	.....
1,1,2-Trichloroethane.....	2.0	.....
Trichloroethene.....	2.0	.....
Trichlorofluoromethane.....	5.0	.....
Vinyl acetate.....	5.0	.....
Vinyl chloride.....	5.0	.....
Total Xylenes.....	2.0	.....

Analytes reported as N.D. were not present at or above the reporting limit.

### DEL MAR ANALYTICAL (ELAP #1197)

Jim Hatfield  
 Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	103%
Toluene-d8 (81-117).....	101%
4-Bromofluorobenzene (74-121).....	92%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI &lt;5 of 28&gt;



Santochi & Bravante  
20 Corporate Plaza  
Newport Beach, CA 92660  
Attention: Trevor Santochi

Client Project ID: 9621-001-1  
Sample Descript: Soil, CE-1  
Lab Number: GH04468

Sampled:	Aug 29, 1997
Received:	Aug 30, 1997
Extracted:	Aug 31, 1997
Analyzed:	Aug 31, 1997
Reported:	Sep 4, 1997

## VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result	
			µg/Kg (ppb)
Acetone.....	10	.....	N.D.
Benzene.....	2.0	.....	N.D.
Bromodichloromethane.....	2.0	.....	N.D.
Bromoform.....	5.0	.....	N.D.
Bromomethane.....	5.0	.....	N.D.
2-Butanone.....	10	.....	N.D.
Carbon disulfide.....	5.0	.....	N.D.
Carbon tetrachloride.....	5.0	.....	N.D.
Chlorobenzene.....	2.0	.....	N.D.
Chlorodibromomethane.....	2.0	.....	N.D.
Chloroethane.....	5.0	.....	N.D.
2-Chloroethyl vinyl ether.....	10	.....	N.D.
Chloroform.....	60	.....	N.D.
Chloromethane.....	5.0	.....	N.D.
1,1-Dichloroethane.....	2.0	.....	N.D.
1,2-Dichloroethane.....	2.0	.....	N.D.
1,1-Dichloroethene.....	5.0	.....	N.D.
cis-1,2-Dichloroethene.....	2.0	.....	N.D.
trans-1,2-Dichloroethene.....	2.0	.....	N.D.
1,2-Dichloropropane.....	2.0	.....	N.D.
cis-1,3-Dichloropropene.....	2.0	.....	N.D.
trans-1,3-Dichloropropene.....	2.0	.....	N.D.
Ethylbenzene.....	2.0	.....	N.D.
2-Hexanone.....	10	.....	N.D.
Methylene chloride.....	20	.....	N.D.
4-Methyl-2-pentanone.....	5.0	.....	N.D.
Styrene.....	2.0	.....	N.D.
1,1,2,2-Tetrachloroethane.....	2.0	.....	N.D.
Tetrachloroethene.....	2.0	.....	N.D.
Toluene.....	2.0	.....	N.D.
1,1,1-Trichloroethane.....	2.0	.....	N.D.
1,1,2-Trichloroethane.....	2.0	.....	N.D.
Trichloroethene.....	2.0	.....	N.D.
Trichlorofluoromethane.....	5.0	.....	N.D.
Vinyl acetate.....	5.0	.....	N.D.
Vinyl chloride.....	5.0	.....	N.D.
Total Xylenes.....	2.0	.....	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

### DEL MAR ANALYTICAL (ELAP #1197)

  
Jim Hatfield  
Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	109%
Toluene-d8 (81-117).....	102%
4-Bromofluorobenzene (74-121).....	92%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.





# Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-II, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite I, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1  
 Sample Descript: Soil, CT-1  
 Lab Number: GH04469

Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: Aug 31, 1997  
 Analyzed: Aug 31, 1997  
 Reported: Sep 4, 1997

## VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone.....	10	.....
Benzene.....	2.0	.....
Bromodichloromethane.....	2.0	.....
Bromoform.....	5.0	.....
Bromomethane.....	5.0	.....
2-Butanone.....	10	.....
Carbon disulfide.....	5.0	.....
Carbon tetrachloride.....	5.0	.....
Chlorobenzene.....	2.0	.....
Chlorodibromomethane.....	2.0	.....
Chloroethane.....	5.0	.....
2-Chloroethyl vinyl ether.....	10	.....
Chloroform.....	60	.....
Chloromethane.....	5.0	.....
1,1-Dichloroethane.....	2.0	.....
1,2-Dichloroethane.....	2.0	.....
1,1-Dichloroethene.....	5.0	.....
cis-1,2-Dichloroethene.....	2.0	.....
trans-1,2-Dichloroethene.....	2.0	.....
1,2-Dichloropropane.....	2.0	.....
cis-1,3-Dichloropropene.....	2.0	.....
trans-1,3-Dichloropropene.....	2.0	.....
Ethylbenzene.....	2.0	.....
2-Hexanone.....	10	.....
Methylene chloride.....	20	.....
4-Methyl-2-pentanone.....	5.0	.....
Styrene.....	2.0	.....
1,1,2,2-Tetrachloroethane.....	2.0	.....
Tetrachloroethene.....	2.0	.....
Toluene.....	2.0	.....
1,1,1-Trichloroethane.....	2.0	.....
1,1,2-Trichloroethane.....	2.0	.....
Trichloroethene.....	2.0	.....
Trichlorofluoromethane.....	5.0	.....
Vinyl acetate.....	5.0	.....
Vinyl chloride.....	5.0	.....
Total Xylenes.....	2.0	.....

Analytes reported as N.D. were not present at or above the reporting limit.

### DEL MAR ANALYTICAL (ELAP #1197)

  
 Jim Hatfield  
 Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	107%
Toluene-d8 (81-117).....	104%
4-Bromofluorobenzene (74-121)....	88%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI <7 of 28>





# Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-II, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

**Santochi & Bravante**  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1  
 Sample Descript: Soil, CT-2  
 Lab Number: GH04470

Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: Aug 31, 1997  
 Analyzed: Aug 31, 1997  
 Reported: Sep 4, 1997

## VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone.....	10	.....
Benzene.....	2.0	.....
Bromodichloromethane.....	2.0	.....
Bromoform.....	5.0	.....
Bromomethane.....	5.0	.....
2-Butanone.....	10	.....
Carbon disulfide.....	5.0	.....
Carbon tetrachloride.....	5.0	.....
Chlorobenzene.....	2.0	.....
Chlorodibromomethane.....	2.0	.....
Chloroethane.....	5.0	.....
2-Chloroethyl vinyl ether.....	10	.....
Chloroform.....	60	.....
Chloromethane.....	5.0	.....
1,1-Dichloroethane.....	2.0	.....
1,2-Dichloroethane.....	2.0	.....
1,1-Dichloroethene.....	5.0	.....
cis-1,2-Dichloroethylene.....	2.0	.....
trans-1,2-Dichloroethene.....	2.0	.....
1,2-Dichloropropane.....	2.0	.....
cis-1,3-Dichloropropene.....	2.0	.....
trans-1,3-Dichloropropene.....	2.0	.....
Ethylbenzene.....	2.0	.....
2-Hexanone.....	10	.....
Methylene chloride.....	20	.....
4-Methyl-2-pentanone.....	5.0	.....
Styrene.....	2.0	.....
1,1,2,2-Tetrachloroethane.....	2.0	.....
Tetrachloroethylene.....	2.0	.....
Toluene.....	2.0	.....
1,1,1-Trichloroethane.....	2.0	.....
1,1,2-Trichloroethane.....	2.0	.....
Trichloroethylene.....	2.0	.....
Trichlorofluoromethane.....	5.0	.....
Vinyl acetate.....	5.0	.....
Vinyl chloride.....	5.0	.....
Total Xylenes.....	2.0	.....

Analytes reported as N.D. were not present at or above the reporting limit.

### DEL MAR ANALYTICAL (ELAP #1197)

  
 Jim Hatfield  
 Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	107%
Toluene-d8 (81-117).....	102%
4-Bromofluorobenzene (74-121).....	84%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.





# Del Mar Analytical

Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1

2852 Alton Ave., Irvine, CA 92606	(714) 261-1022 FAX (714) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324	(909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406	(818) 779-1844 FAX (818) 779-1843
2465 W. 12th St., Suite 1, Tempe, AZ 85281	(602) 968-8272 FAX (602) 968-1338

Sample Descript: Soil, CT-3  
 Lab Number: GH04471

Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: Aug 31, 1997  
 Analyzed: Aug 31, 1997  
 Reported: Sep 4, 1997

## VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone.....	10	..... N.D.
Benzene.....	2.0	..... N.D.
Bromodichloromethane.....	2.0	..... N.D.
Bromoform.....	5.0	..... N.D.
Bromomethane.....	5.0	..... N.D.
2-Butanone.....	10	..... N.D.
Carbon disulfide.....	5.0	..... N.D.
Carbon tetrachloride.....	5.0	..... N.D.
Chlorobenzene.....	2.0	..... N.D.
Chlorodibromomethane.....	2.0	..... N.D.
Chloroethane.....	5.0	..... N.D.
2-Chloroethyl vinyl ether.....	10	..... N.D.
Chloroform.....	60	..... N.D.
Chloromethane.....	5.0	..... N.D.
1,1-Dichloroethane.....	2.0	..... N.D.
1,2-Dichloroethane.....	2.0	..... N.D.
1,1-Dichloroethene.....	5.0	..... N.D.
cis-1,2-Dichloroethene.....	2.0	..... N.D.
trans-1,2-Dichloroethene.....	2.0	..... N.D.
1,2-Dichloropropane.....	2.0	..... N.D.
cis-1,3-Dichloropropene.....	2.0	..... N.D.
trans-1,3-Dichloropropene.....	2.0	..... N.D.
Ethylbenzene.....	2.0	..... N.D.
2-Hexanone.....	10	..... N.D.
Methylene chloride.....	20	..... N.D.
4-Methyl-2-pentanone.....	5.0	..... N.D.
Styrene.....	2.0	..... N.D.
1,1,2,2-Tetrachloroethane.....	2.0	..... N.D.
Tetrachloroethene.....	2.0	..... N.D.
Toluene.....	2.0	..... N.D.
1,1,1-Trichloroethane.....	2.0	..... N.D.
1,1,2-Trichloroethane.....	2.0	..... N.D.
Trichloroethene.....	2.0	..... N.D.
Trichlorofluoromethane.....	5.0	..... N.D.
Vinyl acetate.....	5.0	..... N.D.
Vinyl chloride.....	5.0	..... N.D.
Total Xylenes.....	2.0	..... N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

### DEL MAR ANALYTICAL (ELAP #1197)

  
 Jim Hatfield  
 Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	107%
Toluene-d8 (81-117).....	102%
4-Bromofluorobenzene (74-121).....	89%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI <9 of 28>





# Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-II, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

**Santochi & Bravante**  
**20 Corporate Plaza**  
**Newport Beach, CA 92660**  
**Attention: Trevor Santochi**

**Client Project ID: 9621-001-1**  
**Sample Descript: Soil, CT-4**  
**Lab Number: GH04472**

**Sampled:** Aug 29, 1997  
**Received:** Aug 30, 1997  
**Extracted:** Sep 1, 1997  
**Analyzed:** Sep 1, 1997  
**Reported:** Sep 4, 1997

## VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
<b>Acetone.....</b>	<b>10</b>	<b>49</b>
Benzene.....	2.0	.....
Bromodichloromethane.....	2.0	.....
Bromoform.....	5.0	.....
Bromomethane.....	5.0	.....
2-Butanone.....	10	.....
Carbon disulfide.....	5.0	.....
Carbon tetrachloride.....	5.0	.....
Chlorobenzene.....	2.0	.....
Chlorodibromomethane.....	2.0	.....
Chloroethane.....	5.0	.....
2-Chloroethyl vinyl ether.....	10	.....
Chloroform.....	60	.....
Chloromethane.....	5.0	.....
1,1-Dichloroethane.....	2.0	.....
1,2-Dichloroethane.....	2.0	.....
1,1-Dichloroethene.....	5.0	.....
cis-1,2-Dichloroethene.....	2.0	.....
trans-1,2-Dichloroethene.....	2.0	.....
1,2-Dichloropropane.....	2.0	.....
cis-1,3-Dichloropropene.....	2.0	.....
trans-1,3-Dichloropropene.....	2.0	.....
<b>Ethylbenzene.....</b>	<b>2.0</b>	<b>10</b>
2-Hexanone.....	10	.....
Methylene chloride.....	20	.....
4-Methyl-2-pentanone.....	5.0	.....
Styrene.....	2.0	.....
1,1,2,2-Tetrachloroethane.....	2.0	.....
Tetrachloroethene.....	2.0	.....
Toluene.....	2.0	.....
1,1,1-Trichloroethane.....	2.0	.....
1,1,2-Trichloroethane.....	2.0	.....
Trichloroethene.....	2.0	.....
Trichlorofluoromethane.....	5.0	.....
Vinyl acetate.....	5.0	.....
Vinyl chloride.....	5.0	.....
Total Xylenes.....	2.0	.....

Analytes reported as N.D. were not present at or above the reporting limit.

### DEL MAR ANALYTICAL (ELAP #1197)

  
**Jim Hatfield**  
 Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	106%
Toluene-d8 (81-117).....	97%
4-Bromofluorobenzene (74-121).....	111%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.



Santochi & Bravante  
20 Corporate Plaza  
Newport Beach, CA 92660  
Attention: Trevor Santochi

Client Project ID: 9621-001-1  
Sample Descript: Soil, CT-5  
Lab Number: GH04473

Sampled: Aug 29, 1997  
Received: Aug 30, 1997  
Extracted: Aug 31, 1997  
Analyzed: Aug 31, 1997  
Reported: Sep 4, 1997

## VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone.....	10	.....
Benzene.....	2.0	.....
Bromodichloromethane.....	2.0	.....
Bromoform.....	5.0	.....
Bromomethane.....	5.0	.....
2-Butanone.....	10	.....
Carbon disulfide.....	5.0	.....
Carbon tetrachloride.....	5.0	.....
Chlorobenzene.....	2.0	.....
Chlorodibromomethane.....	2.0	.....
Chloroethane.....	5.0	.....
2-Chloroethyl vinyl ether.....	10	.....
Chloroform.....	60	.....
Chloromethane.....	5.0	.....
1,1-Dichloroethane.....	2.0	.....
1,2-Dichloroethane.....	2.0	.....
1,1-Dichloroethene.....	5.0	.....
cis-1,2-Dichloroethene.....	2.0	.....
trans-1,2-Dichloroethene.....	2.0	.....
1,2-Dichloropropane.....	2.0	.....
cis-1,3-Dichloropropene.....	2.0	.....
trans-1,3-Dichloropropene.....	2.0	.....
Ethylbenzene.....	2.0	.....
2-Hexanone.....	10	.....
Methylene chloride.....	20	.....
4-Methyl-2-pentanone.....	5.0	.....
Styrene.....	2.0	.....
1,1,2,2-Tetrachloroethane.....	2.0	.....
Tetrachloroethene.....	2.0	.....
Toluene.....	2.0	.....
1,1,1-Trichloroethane.....	2.0	.....
1,1,2-Trichloroethane.....	2.0	.....
Trichloroethene.....	2.0	.....
Trichlorofluoromethane.....	5.0	.....
Vinyl acetate.....	5.0	.....
Vinyl chloride.....	5.0	.....
Total Xylenes.....	2.0	.....

Analytes reported as N.D. were not present at or above the reporting limit.

### DEL MAR ANALYTICAL (ELAP #1197)

  
Jim Hatfield  
Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	109%
Toluene-d8 (81-117).....	104%
4-Bromofluorobenzene (74-121).....	87%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.



# Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-II, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite I, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1  
 Sample Descript: Soil, CT-6  
 Lab Number: GH04474

Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: Aug 31, 1997  
 Analyzed: Aug 31, 1997  
 Reported: Sep 4, 1997

## VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone.....	10	N.D.
Benzene.....	2.0	N.D.
Bromodichloromethane.....	2.0	N.D.
Bromoform.....	5.0	N.D.
Bromomethane.....	5.0	N.D.
2-Butanone.....	10	N.D.
Carbon disulfide.....	5.0	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	2.0	N.D.
Chlorodibromomethane.....	2.0	N.D.
Chloroethane.....	5.0	N.D.
2-Chloroethyl vinyl ether.....	10	N.D.
Chloroform.....	60	N.D.
Chloromethane.....	5.0	N.D.
1,1-Dichloroethane.....	2.0	N.D.
1,2-Dichloroethane.....	2.0	N.D.
1,1-Dichloroethene.....	5.0	N.D.
cis-1,2-Dichloroethene.....	2.0	N.D.
trans-1,2-Dichloroethene.....	2.0	N.D.
1,2-Dichloropropane.....	2.0	N.D.
cis-1,3-Dichloropropene.....	2.0	N.D.
trans-1,3-Dichloropropene.....	2.0	N.D.
Ethylbenzene.....	2.0	N.D.
2-Hexanone.....	10	N.D.
Methylene chloride.....	20	N.D.
4-Methyl-2-pentanone.....	5.0	N.D.
Styrene.....	2.0	N.D.
1,1,2,2-Tetrachloroethane.....	2.0	N.D.
Tetrachloroethene.....	2.0	N.D.
Toluene.....	2.0	N.D.
1,1,1-Trichloroethane.....	2.0	N.D.
1,1,2-Trichloroethane.....	2.0	N.D.
Trichloroethene.....	2.0	N.D.
Trichlorofluoromethane.....	5.0	N.D.
Vinyl acetate.....	5.0	N.D.
Vinyl chloride.....	5.0	N.D.
Total Xylenes.....	2.0	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

### DEL MAR ANALYTICAL (ELAP #1197)

  
 Jim Hatfield  
 Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	111%
Toluene-d8 (81-117).....	103%
4-Bromofluorobenzene (74-121).....	88%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.





2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-II, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite I, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1

Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: Sep 2, 1997  
 Analyzed: Sep 2, 1997  
 Reported: Sep 4, 1997

Analysis Method: EPA 3550/CA DHS Mod. 8015  
 First Sample #: GH04465

### EXTRACTABLE FUEL HYDROCARBONS (CA DHS Mod. EPA 8015) - DIESEL

Laboratory Number	Sample Description	Sample Result mg/Kg (ppm)	Reporting Limit mg/Kg (ppm)	Dilution Factor	Hydrocarbon Type
GH04465	CW-1	N.D.	5.0	1	N.A.
GH04466	CN-1	N.D.	5.0	1	N.A.
GH04467	CS-1	N.D.	5.0	1	N.A.
GH04468	CE-1	N.D.	5.0	1	N.A.
GH04469	CT-1	43	5.0	1	C8-C40
GH04470	CT-2	N.D.	5.0	1	N.A.
GH04471	CT-3	N.D.	5.0	1	N.A.
GH04472	CT-4	1,900	100	20	C8-C38
GH04473	CT-5	N.D.	5.0	1	N.A.
GH04474	CT-6	N.D.	5.0	1	N.A.

Extractable Hydrocarbons are quantitated against a diesel fuel standard. Hydrocarbons detected by this method range from C8 to C40. Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

DEL MAR ANALYTICAL (ELAP #1197)

Jim Hatfield  
 Project Manager



**Santochi & Bravante**  
**20 Corporate Plaza**  
**Newport Beach, CA 92660**  
**Attention: Trevor Santochi**

**Client Project ID: 9621-001-1**  
**Sample Descript: Soil, CW-1**  
**Lab Number: GH04465**

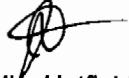
**Sampled:** Aug 29, 1997  
**Received:** Aug 30, 1997  
**Extracted:** 8/30-9/2, 1997  
**Analyzed:** 8/30-9/2, 1997  
**Reported:** Sep 4, 1997

### CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

<b>Analyte</b>	<b>EPA Method</b>	<b>STLC</b>	<b>TTLC</b>	<b>Reporting Limit</b>	<b>TTLC Sample Result</b>
		<b>Max. Limit</b> mg/L (ppm)	<b>Max. Limit</b> mg/Kg (ppm)	<b>mg/Kg</b> (ppm)	
Antimony.....	6010	15	500	10	..... N.D.
Arsenic.....	6010	5.0	500	2.0	..... 9.1
Barium.....	6010	100	10000	1.0	..... 120
Beryllium.....	6010	0.75	75	0.50	..... N.D.
Cadmium.....	6010	1.0	100	0.50	..... 1.3
Chromium, VI.....	7196	5.0	500	0.50	..... N.D.
Chromium, total.....	6010	5.0	2500	1.0	..... 23
Cobalt.....	6010	80	8000	1.0	..... 11
Copper.....	6010	25	2500	1.0	..... 32
Lead.....	6010	5.0	1000	2.0	..... 11
Mercury.....	7471	0.20	20	0.020	..... 0.037
Molybdenum.....	6010	350	3500	1.0	..... N.D.
Nickel.....	6010	20	2000	1.0	..... 29
Selenium.....	6010	1.0	100	2.0	..... N.D.
Silver.....	6010	5.0	500	1.0	..... N.D.
Thallium.....	6010	7.0	700	10	..... N.D.
Vanadium.....	6010	24	2400	1.0	..... 37
Zinc.....	6010	250	5000	1.0	..... 54

Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**

  
**Jim Hatfield**  
 Project Manager



Santochi & Bravante  
20 Corporate Plaza  
Newport Beach, CA 92660  
Attention: Trevor Santochi

Client Project ID: 9621-001-1  
Sample Descript: Soil, CN-1  
Lab Number: GH04466

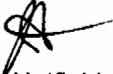
Sampled: Aug 29, 1997  
Received: Aug 30, 1997  
Extracted: 8/30-9/2, 1997  
Analyzed: 8/30-9/2, 1997  
Reported: Sep 4, 1997

## CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Reporting Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony.....	6010	15	500	10	..... N.D.
Arsenic.....	6010	5.0	500	2.0	..... 9.9
Barium.....	6010	100	10000	1.0	..... 140
Beryllium.....	6010	0.75	75	0.50	..... N.D.
Cadmium.....	6010	1.0	100	0.50	..... 1.3
Chromium, VI.....	7196	5.0	500	0.50	..... N.D.
Chromium, total.....	6010	5.0	2500	1.0	..... 24
Cobalt.....	6010	80	8000	1.0	..... 12
Copper.....	6010	25	2500	1.0	..... 29
Lead.....	6010	5.0	1000	2.0	..... 5.9
Mercury.....	7471	0.20	20	0.020	..... 0.045
Molybdenum.....	6010	350	3500	1.0	..... N.D.
Nickel.....	6010	20	2000	1.0	..... 28
Selenium.....	6010	1.0	100	2.0	..... N.D.
Silver.....	6010	5.0	500	1.0	..... N.D.
Thallium.....	6010	7.0	700	10	..... N.D.
Vanadium.....	6010	24	2400	1.0	..... 40
Zinc.....	6010	250	5000	1.0	..... 51

Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**

  
Jim Hatfield  
Project Manager

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI <15 of 28>



Santochi & Bravante  
20 Corporate Plaza  
Newport Beach, CA 92660  
Attention: Trevor Santochi

Client Project ID: 9621-001-1  
  
Sample Descript: Soil, CS-1  
Lab Number: GH04467

Sampled: Aug 29, 1997  
Received: Aug 30, 1997  
Extracted: 8/30-9/3, 1997  
Analyzed: 8/30-9/3, 1997  
Reported: Sep 4, 1997

## CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC	TTLC	Reporting	TTLC
		Max. Limit mg/L (ppm)	Max. Limit mg/Kg (ppm)	Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
Antimony.....	6010	15	500	10	..... N.D.
Arsenic.....	6010	5.0	500	2.0	..... 17
Barium.....	6010	100	10000	1.0	..... 120
Beryllium.....	6010	0.75	75	0.50	..... N.D.
Cadmium.....	6010	1.0	100	0.50	..... 1.3
Chromium, VI.....	7196	5.0	500	0.50	..... N.D.
Chromium, total.....	6010	5.0	2500	1.0	..... 28
Cobalt.....	6010	80	8000	1.0	..... 14
Copper.....	6010	25	2500	1.0	..... 38
Lead.....	6010	5.0	1000	2.0	..... 8.2
Mercury.....	7471	0.20	20	0.020	..... 0.92
Molybdenum.....	6010	350	3500	1.0	..... N.D.
Nickel.....	6010	20	2000	1.0	..... 36
Selenium.....	6010	1.0	100	2.0	..... N.D.
Silver.....	6010	5.0	500	1.0	..... N.D.
Thallium.....	6010	7.0	700	10	..... N.D.
Vanadium.....	6010	24	2400	1.0	..... 43
Zinc.....	6010	250	5000	1.0	..... 58

Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**



Jim Hatfield  
Project Manager



Santochi & Bravante  
20 Corporate Plaza  
Newport Beach, CA 92660  
Attention: Trevor Santochi

Client Project ID: 9621-001-1  
Sample Descript: Soil, CE-1  
Lab Number: GH04468

Sampled: Aug 29, 1997  
Received: Aug 30, 1997  
Extracted: 8/30-9/2, 1997  
Analyzed: 8/30-9/2, 1997  
Reported: Sep 4, 1997

### CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Reporting Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony.....	6010	15	500	10	..... N.D.
Arsenic.....	6010	5.0	500	2.0	..... 5.4
Barium.....	6010	100	10000	1.0	..... 150
Beryllium.....	6010	0.75	75	0.50	..... N.D.
Cadmium.....	6010	1.0	100	0.50	..... 1.4
Chromium, VI.....	7196	5.0	500	0.50	..... N.D.
Chromium, total.....	6010	5.0	2500	1.0	..... 30
Cobalt.....	6010	80	8000	1.0	..... 15
Copper.....	6010	25	2500	1.0	..... 31
Lead.....	6010	5.0	1000	2.0	..... 6.1
Mercury.....	7471	0.20	20	0.020	..... 0.048
Molybdenum.....	6010	350	3500	1.0	..... N.D.
Nickel.....	6010	20	2000	1.0	..... 34
Selenium.....	6010	1.0	100	2.0	..... N.D.
Silver.....	6010	5.0	500	1.0	..... N.D.
Thallium.....	6010	7.0	700	10	..... N.D.
Vanadium.....	6010	24	2400	1.0	..... 54
Zinc.....	6010	250	5000	1.0	..... 60

Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**

  
 Jim Hatfield  
Project Manager

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI <17 of 28>



Santochi & Bravante  
20 Corporate Plaza  
Newport Beach, CA 92660  
Attention: Trevor Santochi

Client Project ID: 9621-001-1  
  
Sample Descript: Soil, CT-1  
Lab Number: GH04469

Sampled: Aug 29, 1997  
Received: Aug 30, 1997  
Extracted: 8/30-9/2, 1997  
Analyzed: 8/30-9/2, 1997  
Reported: Sep 4, 1997

## CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Reporting Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony.....	6010	15	500	10	..... N.D.
Arsenic.....	6010	5.0	500	2.0	..... 2.4
Barium.....	6010	100	10000	1.0	..... 110
Beryllium.....	6010	0.75	75	0.50	..... N.D.
Cadmium.....	6010	1.0	100	0.50	..... 1.1
Chromium, VI.....	7196	5.0	500	0.50	..... N.D.
Chromium, total.....	6010	5.0	2500	1.0	..... 19
Cobalt.....	6010	80	8000	1.0	..... 11
Copper.....	6010	25	2500	1.0	..... 26
Lead.....	6010	5.0	1000	2.0	..... 4.7
Mercury.....	7471	0.20	20	0.020	..... 0.042
Molybdenum.....	6010	350	3500	1.0	..... N.D.
Nickel.....	6010	20	2000	1.0	..... 24
Selenium.....	6010	1.0	100	2.0	..... N.D.
Silver.....	6010	5.0	500	1.0	..... N.D.
Thallium.....	6010	7.0	700	10	..... N.D.
Vanadium.....	6010	24	2400	1.0	..... 37
Zinc.....	6010	250	5000	1.0	..... 46

Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**

  
Jim Hatfield  
Project Manager





# Del Mar Analytical

Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-II, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Sample Descript: Soil, CT-3  
 Lab Number: GH04471

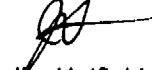
Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: 8/30-9/2, 1997  
 Analyzed: 8/30-9/2, 1997  
 Reported: Sep 4, 1997

## CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Reporting Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony.....	6010	15	500	10	..... N.D.
Arsenic.....	6010	5.0	500	2.0	..... 7.7
Barium.....	6010	100	10000	1.0	..... 92
Beryllium.....	6010	0.75	75	0.50	..... N.D.
Cadmium.....	6010	1.0	100	0.50	..... 0.99
Chromium, VI.....	7196	5.0	500	0.50	..... N.D.
Chromium, total.....	6010	5.0	2500	1.0	..... 15
Cobalt.....	6010	80	8000	1.0	..... 9.3
Copper.....	6010	25	2500	1.0	..... 23
Lead.....	6010	5.0	1000	2.0	..... 3.4
Mercury.....	7471	0.20	20	0.020	..... 0.021
Molybdenum.....	6010	350	3500	1.0	..... 1.1
Nickel.....	6010	20	2000	1.0	..... 21
Selenium.....	6010	1.0	100	2.0	..... N.D.
Silver.....	6010	5.0	500	1.0	..... N.D.
Thallium.....	6010	7.0	700	10	..... N.D.
Vanadium.....	6010	24	2400	1.0	..... 32
Zinc.....	6010	250	5000	1.0	..... 43

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1197)

  
 Jim Hatfield  
 Project Manager





2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite I, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1  
 Sample Descript: Soil, CT-2  
 Lab Number: GH04470

Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: 8/30-9/2, 1997  
 Analyzed: 8/30-9/2, 1997  
 Reported: Sep 4, 1997

## CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Reporting Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony.....	6010	15	500	10	..... N.D.
Arsenic.....	6010	5.0	500	2.0	..... 8.2
Barium.....	6010	100	10000	1.0	..... 96
Beryllium.....	6010	0.75	75	0.50	..... N.D.
Cadmium.....	6010	1.0	100	0.50	..... 1.1
Chromium, VI.....	7196	5.0	500	0.50	..... N.D.
Chromium, total.....	6010	5.0	2500	1.0	..... 22
Cobalt.....	6010	80	8000	1.0	..... 11
Copper.....	6010	25	2500	1.0	..... 30
Lead.....	6010	5.0	1000	2.0	..... 4.6
Mercury.....	7471	0.20	20	0.020	..... 0.026
Molybdenum.....	6010	350	3500	1.0	..... N.D.
Nickel.....	6010	20	2000	1.0	..... 28
Selenium.....	6010	1.0	100	2.0	..... N.D.
Silver.....	6010	5.0	500	1.0	..... N.D.
Thallium.....	6010	7.0	700	10	..... N.D.
Vanadium.....	6010	24	2400	1.0	..... 37
Zinc.....	6010	250	5000	1.0	..... 53

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1197)

Jim Hatfield  
 Project Manager

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI <19 of 28>





# Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite I, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1

Sample Descript: Soil, CT-4  
 Lab Number: GH04472

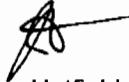
Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: 8/30-9/2, 1997  
 Analyzed: 8/30-9/2, 1997  
 Reported: Sep 4, 1997

## CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Reporting Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony.....	6010	15	500	10	..... N.D.
Arsenic.....	6010	5.0	500	2.0	..... 5.0
Barium.....	6010	100	10000	1.0	..... 990
Beryllium.....	6010	0.75	75	0.50	..... N.D.
Cadmium.....	6010	1.0	100	0.50	..... 1.7
Chromium, VI.....	7196	5.0	500	0.50	..... N.D.
Chromium, total.....	6010	5.0	2500	1.0	..... 27
Cobalt.....	6010	80	8000	1.0	..... 13
Copper.....	6010	25	2500	1.0	..... 30
Lead.....	6010	5.0	1000	2.0	..... 28
Mercury.....	7471	0.20	20	0.020	..... 0.049
Molybdenum.....	6010	350	3500	1.0	..... N.D.
Nickel.....	6010	20	2000	1.0	..... 34
Selenium.....	6010	1.0	100	2.0	..... N.D.
Silver.....	6010	5.0	500	1.0	..... N.D.
Thallium.....	6010	7.0	700	10	..... N.D.
Vanadium.....	6010	24	2400	1.0	..... 47
Zinc.....	6010	250	5000	1.0	..... 75

Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**

  
 Jim Hatfield  
 Project Manager

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.



# Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

Client Project ID: 9621-001-1

Sampled: Aug 29, 1997  
 Received: Aug 30, 1997  
 Extracted: 8/30-9/2, 1997  
 Analyzed: 8/30-9/2, 1997  
 Reported: Sep 4, 1997

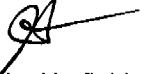
Sample Descript: Soil, CT-5  
 Lab Number: GH04473

## CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Reporting Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony.....	6010	15	500	10	..... N.D.
Arsenic.....	6010	5.0	500	2.0	..... 6.7
Barium.....	6010	100	10000	1.0	..... 210
Beryllium.....	6010	0.75	75	0.50	..... N.D.
Cadmium.....	6010	1.0	100	0.50	..... 1.1
Chromium, VI.....	7196	5.0	500	0.50	..... N.D.
Chromium, total.....	6010	5.0	2500	1.0	..... 23
Cobalt.....	6010	80	8000	1.0	..... 13
Copper.....	6010	25	2500	1.0	..... 29
Lead.....	6010	5.0	1000	2.0	..... 5.3
Mercury.....	7471	0.20	20	0.020	..... N.D.
Molybdenum.....	6010	350	3500	1.0	..... N.D.
Nickel.....	6010	20	2000	1.0	..... 31
Selenium.....	6010	1.0	100	2.0	..... N.D.
Silver.....	6010	5.0	500	1.0	..... N.D.
Thallium.....	6010	7.0	700	10	..... N.D.
Vanadium.....	6010	24	2400	1.0	..... 41
Zinc.....	6010	250	5000	1.0	..... 56

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1197)

  
 Jim Hatfield  
 Project Manager

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI <22 of 28>



Santochi & Bravante  
20 Corporate Plaza  
Newport Beach, CA 92660  
Attention: Trevor Santochi

Client Project ID: 9621-001-1

Sample Descript: Soil, CT-6  
Lab Number: GH04474

Sampled: Aug 29, 1997  
Received: Aug 30, 1997  
Extracted: 8/30-9/2, 1997  
Analyzed: 8/30-9/2, 1997  
Reported: Sep 4, 1997

## CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Reporting Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony.....	6010	15	500	10	..... N.D.
Arsenic.....	6010	5.0	500	2.0	..... 7.8
Barium.....	6010	100	10000	1.0	..... 87
Beryllium.....	6010	0.75	75	0.50	..... N.D.
Cadmium.....	6010	1.0	100	0.50	..... 0.94
Chromium, VI.....	7196	5.0	500	0.50	..... N.D.
Chromium, total.....	6010	5.0	2500	1.0	..... 20
Cobalt.....	6010	80	8000	1.0	..... 10
Copper.....	6010	25	2500	1.0	..... 26
Lead.....	6010	5.0	1000	2.0	..... 4.1
Mercury.....	7471	0.20	20	0.020	..... 0.052
Molybdenum.....	6010	350	3500	1.0	..... N.D.
Nickel.....	6010	20	2000	1.0	..... 26
Selenium.....	6010	1.0	100	2.0	..... N.D.
Silver.....	6010	5.0	500	1.0	..... N.D.
Thallium.....	6010	7.0	700	10	..... N.D.
Vanadium.....	6010	24	2400	1.0	..... 38
Zinc.....	6010	250	5000	1.0	..... 48

Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**

  
 Jim Hatfield  
Project Manager

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI <23 of 28>





2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Santochi & Bravante  
20 Corporate Plaza  
Newport Beach, CA 92660  
Attention: Trevor Santochi

**Method Blank**

Extracted: 8/30/91, 1997  
Analyzed: 8/30/91, 1997  
Reported: Sep 4, 1997  
Matrix: Soil

**VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)**

	<b>Sample Description</b>	<b>Volatile Fuel Hydrocarbons</b> mg/Kg (ppm)	<b>Benzene</b> mg/Kg (ppm)	<b>Toluene</b> mg/Kg (ppm)	<b>Ethyl Benzene</b> mg/Kg (ppm)	<b>Total Xylenes</b> mg/Kg (ppm)
	<b>Method Blank</b>	N.D.	N.D.	N.D.	N.D.	N.D.
Dilution 1:1	Reporting Limit:	1.0	0.0050	0.0050	0.0050	0.015

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12. Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

**DEL MAR ANALYTICAL (ELAP #1197)**

Jim Hatfield  
Project Manager

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI <24 of 28>



Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

**Method Blank**

Extracted: Aug 31, 1997  
 Analyzed: Aug 31, 1997  
 Reported: Sep 4, 1997  
 Matrix: Soil

**VOLATILE ORGANICS by GC/MS (EPA 8240)**

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone.....	10	..... N.D.
Benzene.....	2.0	..... N.D.
Bromodichloromethane.....	2.0	..... N.D.
Bromoform.....	5.0	..... N.D.
Bromomethane.....	5.0	..... N.D.
2-Butanone.....	10	..... N.D.
Carbon disulfide.....	5.0	..... N.D.
Carbon tetrachloride.....	5.0	..... N.D.
Chlorobenzene.....	2.0	..... N.D.
Chlorodibromomethane.....	2.0	..... N.D.
Chloroethane.....	5.0	..... N.D.
2-Chloroethyl vinyl ether.....	10	..... N.D.
Chloroform.....	60	..... N.D.
Chloromethane.....	5.0	..... N.D.
1,1-Dichloroethane.....	2.0	..... N.D.
1,2-Dichloroethane.....	2.0	..... N.D.
1,1-Dichloroethene.....	5.0	..... N.D.
cis-1,2-Dichloroethene.....	2.0	..... N.D.
trans-1,2-Dichloroethene.....	2.0	..... N.D.
1,2-Dichloropropane.....	2.0	..... N.D.
cis-1,3-Dichloropropene.....	2.0	..... N.D.
trans-1,3-Dichloropropene.....	2.0	..... N.D.
Ethylbenzene.....	2.0	..... N.D.
2-Hexanone.....	10	..... N.D.
Methylene chloride.....	20	..... N.D.
4-Methyl-2-pentanone.....	5.0	..... N.D.
Styrene.....	2.0	..... N.D.
1,1,2,2-Tetrachloroethane.....	2.0	..... N.D.
Tetrachloroethene.....	2.0	..... N.D.
Toluene.....	2.0	..... N.D.
1,1,1-Trichloroethane.....	2.0	..... N.D.
1,1,2-Trichloroethane.....	2.0	..... N.D.
Trichloroethene.....	2.0	..... N.D.
Trichlorofluoromethane.....	5.0	..... N.D.
Vinyl acetate.....	5.0	..... N.D.
Vinyl chloride.....	5.0	..... N.D.
Total Xylenes.....	2.0	..... N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**
  
 Jim Hatfield  
 Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	99%
Toluene-d8 (81-117).....	101%
4-Bromofluorobenzene (74-121).....	96%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI &lt;25 of 28&gt;



Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
 16525 Sherman Way, Suite C-II, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
 2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

## Method Blank

Extracted: Sep 1, 1997  
 Analyzed: Sep 1, 1997  
 Reported: Sep 4, 1997  
 Matrix: Soil

### VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result	
			µg/Kg (ppb)
Acetone.....	10	.....	N.D.
Benzene.....	2.0	.....	N.D.
Bromodichloromethane.....	2.0	.....	N.D.
Bromoform.....	5.0	.....	N.D.
Bromomethane.....	5.0	.....	N.D.
2-Butanone.....	10	.....	N.D.
Carbon disulfide.....	5.0	.....	N.D.
Carbon tetrachloride.....	5.0	.....	N.D.
Chlorobenzene.....	2.0	.....	N.D.
Chlorodibromomethane.....	2.0	.....	N.D.
Chloroethane.....	5.0	.....	N.D.
2-Chloroethyl vinyl ether.....	10	.....	N.D.
Chloroform.....	60	.....	N.D.
Chloromethane.....	5.0	.....	N.D.
1,1-Dichloroethane.....	2.0	.....	N.D.
1,2-Dichloroethane.....	2.0	.....	N.D.
1,1-Dichloroethene.....	5.0	.....	N.D.
cis-1,2-Dichloroethene.....	2.0	.....	N.D.
trans-1,2-Dichloroethene.....	2.0	.....	N.D.
1,2-Dichloropropane.....	2.0	.....	N.D.
cis-1,3-Dichloropropene.....	2.0	.....	N.D.
trans-1,3-Dichloropropene.....	2.0	.....	N.D.
Ethylbenzene.....	2.0	.....	N.D.
2-Hexanone.....	10	.....	N.D.
Methylene chloride.....	20	.....	N.D.
4-Methyl-2-pentanone.....	5.0	.....	N.D.
Styrene.....	2.0	.....	N.D.
1,1,2,2-Tetrachloroethane.....	2.0	.....	N.D.
Tetrachloroethene.....	2.0	.....	N.D.
Toluene.....	2.0	.....	N.D.
1,1,1-Trichloroethane.....	2.0	.....	N.D.
1,1,2-Trichloroethane.....	2.0	.....	N.D.
Trichloroethene.....	2.0	.....	N.D.
Trichlorofluoromethane.....	5.0	.....	N.D.
Vinyl acetate.....	5.0	.....	N.D.
Vinyl chloride.....	5.0	.....	N.D.
Total Xylenes.....	2.0	.....	N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**

  
 Jim Hatfield

Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	97%
Toluene-d8 (81-117).....	99%
4-Bromofluorobenzene (74-121).....	103%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

GH04465.SBI <26 of 28>



Santochi & Bravante  
20 Corporate Plaza  
Newport Beach, CA 92660  
Attention: Trevor Santochi

## Method Blank

Extracted: Sep 2, 1997  
Analyzed: Sep 2, 1997  
Reported: Sep 4, 1997  
Matrix: Soil

### EXTRACTABLE FUEL HYDROCARBONS (CA DHS Mod. EPA 8015)

Sample Description	Sample Result	Reporting Limit	Dilution Factor	Hydrocarbon Type
Soil	mg/Kg (ppm)	mg/Kg (ppm)		
Method Blank	N.D.	5.0	1	N.A.

Extractable Hydrocarbons are quantitated against a jet fuel standard. Hydrocarbons detected by this method range from C8 to C30. Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**



Jim Hatfield  
Project Manager



Santochi & Bravante  
 20 Corporate Plaza  
 Newport Beach, CA 92660  
 Attention: Trevor Santochi

**Method Blank**

Extracted: 8/30/93, 1997  
 Analyzed: 8/30/93, 1997  
 Reported: Sep 4, 1997  
 Matrix: Soil

**CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS**

<b>Analyte</b>	<b>EPA Method</b>	<b>STLC Max. Limit</b> mg/L (ppm)	<b>TTLC Max. Limit</b> mg/Kg (ppm)	<b>Reporting Limit</b> mg/Kg (ppm)	<b>TTLC Sample Result</b> mg/Kg (ppm)
Antimony.....	6010	15	500	10	..... N.D.
Arsenic.....	6010	5.0	500	2.0	..... N.D.
Barium.....	6010	100	10000	1.0	..... N.D.
Beryllium.....	6010	0.75	75	0.50	..... N.D.
Cadmium.....	6010	1.0	100	0.50	..... N.D.
Chromium, VI.....	7196	5.0	500	0.50	..... N.D.
Chromium, total.....	6010	5.0	2500	1.0	..... N.D.
Cobalt.....	6010	80	8000	1.0	..... N.D.
Copper.....	6010	25	2500	1.0	..... N.D.
Lead.....	6010	5.0	1000	2.0	..... N.D.
Mercury.....	7471	0.20	20	0.020	..... N.D.
Molybdenum.....	6010	350	3500	1.0	..... N.D.
Nickel.....	6010	20	2000	1.0	..... N.D.
Selenium.....	6010	1.0	100	2.0	..... N.D.
Silver.....	6010	5.0	500	1.0	..... N.D.
Thallium.....	6010	7.0	700	10	..... N.D.
Vanadium.....	6010	24	2400	1.0	..... N.D.
Zinc.....	6010	250	5000	1.0	..... N.D.

Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**



Jim Hatfield  
 Project Manager



## MS/MSD DATA REPORT

EPA METHOD: **7471**  
Matrix: **Soil**

DATE: 9/2/97

SAMPLE #: GH04473

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	0.30	8.0	6.7	7.6	80%	91%	13%	86%

### Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS;  $((MS-R1) / SP) \times 100$

PR2..... Percent Recovery of MSD;  $((MSD-R1) / SP) \times 100$

RPD..... Relative Percent Difference;  $((MS-MSD)/(MS+MSD)/2) \times 100$

Del Mar Analytical



## MS/MSD DATA REPORT

EPA METHOD: 3060/7196  
Matrix: Soil

DATE: 9/2/97

SAMPLE #: GH04471

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Chromium (VI)	0.06	0.30	0.24	0.24	60%	60%	0.0%	60%

### Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS;  $((MS-R1) / SP) \times 100$

PR2..... Percent Recovery of MSD;  $((MSD-R1) / SP) \times 100$

RPD..... Relative Percent Difference;  $((MS-MSD)/(MS+MSD)/2) \times 100$

Del Mar Analytical





# Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
2465 W. 12th St., Suite I, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

## LABORATORY CONTROL SAMPLE

### EPA METHOD 7196

DATE: 9/2/97

Analyte	St	R1	PR
	ppm	ppm	%
Chromium VI	0.10	0.080	80%

#### Definition of Terms:

St..... Standard Concentration

R1..... Standard Result

PR..... Percent Recovery of R1;  $(R1 / St) \times 100$

Del Mar Analytical



## MS/MSD DATA REPORT

EPA METHOD: 8015 by extraction

Matrix: Soil

DATE: 9/2/97SAMPLE #: GH04466

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Hydrocarbons	2.7	50	43	43	81%	81%	0.0%	81%

## Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS;  $((MS-R1) / SP) \times 100$ PR2..... Percent Recovery of MSD;  $((MSD-R1) / SP) \times 100$ RPD..... Relative Percent Difference;  $((MS-MSD)/(MS+MSD)/2) \times 100$ 

Del Mar Analytical



## MS/MSD DATA REPORT

**EPA METHOD: 8240**

Matrix: Soil

**DATE:** 8/31/97

**SAMPLE #:** GH04465

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	48	50	96%	100%	4.1%	98%
Chlorobenzene	0	50	46	48	92%	96%	4.3%	94%
1,1-Dichloroethane	0	50	45	47	90%	94%	4.3%	92%
1,2-Dichloroethane	0	50	51	54	102%	108%	5.7%	105%
1,1-Dichloroethene	0	50	47	49	94%	98%	4.2%	96%
Chloroform	4.2	50	48	51	88%	94%	6.1%	91%
Tetrachloroethene	0	50	46	48	92%	96%	4.3%	94%
Toluene	0	50	47	50	94%	100%	6.2%	97%
Trichloroethene	0	50	44	47	88%	94%	6.6%	91%
Vinyl Chloride	0	50	45	50	90%	100%	11%	95%

**Definition of Terms:**

**R1**..... Result of Sample Analysis

**Sp.**..... Spike Concentration Added to Sample

**MS.**..... Matrix Spike Result

**MSD.**..... Matrix Spike Duplicate Result

**PR1.**..... Percent Recovery of MS;  $((MS-R1) / SP) \times 100$

**PR2.**..... Percent Recovery of MSD;  $((MSD-R1) / SP) \times 100$

**RPD.**..... Relative Percent Difference;  $((MS-MSD)/(MS+MSD)/2) \times 100$

**Del Mar Analytical**



## MS/MSD DATA REPORT

**EPA METHOD: 8240**

Matrix: Soil

**DATE:** 9/1/97

**SAMPLE #:** GH04460

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0.10	50	48	52	96%	104%	8.0%	100%
Chlorobenzene	0	50	48	52	96%	104%	8.0%	100%
1,1-Dichloroethane	0.40	50	49	52	97%	103%	5.9%	100%
1,2-Dichloroethane	0	50	53	55	106%	110%	3.7%	108%
1,1-Dichloroethene	0	50	50	52	100%	104%	3.9%	102%
Chloroform	22	50	63	60	82%	76%	4.9%	79%
Tetrachloroethylene	0	50	47	50	94%	100%	6.2%	97%
Toluene	0	50	48	52	96%	104%	8.0%	100%
Trichloroethylene	0	50	47	48	94%	96%	2.1%	95%
Vinyl Chloride	0	50	53	56	106%	112%	5.5%	109%

**Definition of Terms:**

**R1**..... Result of Sample Analysis

**Sp**..... Spike Concentration Added to Sample

**MS**..... Matrix Spike Result

**MSD**..... Matrix Spike Duplicate Result

**PR1**..... Percent Recovery of MS;  $((MS-R1) / SP) \times 100$

**PR2**..... Percent Recovery of MSD;  $((MSD-R1) / SP) \times 100$

**RPD**..... Relative Percent Difference;  $((MS-MSD)/(MS+MSD)/2) \times 100$



## MS/MSD DATA REPORT

### EPA Method 8015/8020

Matrix: Soil

**Date:** 08/30/97  
**Sample #:** GH04269  
**Batch #:** GH30241S

<b>Analyte</b>	<u>R1</u>	<u>Sp</u>	<u>MS</u>	<u>MSD</u>	<u>PR1</u>	<u>PR2</u>	<u>RPD</u>	<u>Mean PR</u>	<b>Acceptance Limits</b>	
	ppm	ppm	ppm	ppm	%	%	%	%	<u>RPD</u>	<u>Mean PR</u>
TPH	0.20	2.2	1.9	1.8	77	74	3.5	76	≤30	72 - 130
Benzene	0	0.20	0.21	0.22	105	108	2.5	106	≤25	70 - 129
Toluene	0.00019	0.20	0.20	0.20	99	101	1.9	100	≤25	70 - 129
Ethylbenzene	0	0.20	0.19	0.20	97	98	1.1	98	≤25	71 - 130
Xylenes	0	0.60	0.60	0.61	100	101	1.2	100	≤25	72 - 130

### Definition of Terms

- R1..... Result of Sample Analysis
- Sp..... Spike Concentration added to sample
- MS..... Matrix Spike Result
- MSD..... Matrix Spike Duplicate Result
- PR1..... Percent Recovery of MS;  $((MS-R1)/SP) \times 100$
- PR2..... Percent Recovery of MSD;  $((MSD-R1)/SP) \times 100$
- RPD..... Relative Percent Difference;  $((MS-MSD)/(MS+MSD)/2) \times 100$
- Mean PR..... Mean Percent Recovery
- Acceptance Limits ..... Determined by in-house Control Charts





2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

## MS/MSD DATA REPORT

### EPA Method 8015/8020

Matrix: Soil

Date: 09/01/97

Sample #: BLANK

Batch #: GI01241S

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	Mean PR	Acceptance Limits	
	ppm	ppm	ppm	ppm	%	%	%	%	RPD	Mean PR
TPH	0	2.2	2.2	2.2	98	99	0.85	99	≤30	72 - 130
Benzene	0	0.20	0.23	0.23	117	117	0.17	117	≤25	70 - 129
Toluene	0	0.20	0.23	0.23	114	114	0.14	114	≤25	70 - 129
Ethylbenzene	0	0.20	0.22	0.22	109	109	0.58	109	≤25	71 - 130
Xylenes	0	0.60	0.68	0.68	113	114	1.2	113	≤25	72 - 130

### Definition of Terms

- R1..... Result of Sample Analysis  
Sp..... Spike Concentration added to sample  
MS..... Matrix Spike Result  
MSD..... Matrix Spike Duplicate Result  
PR1..... Percent Recovery of MS;  $((MS-R1)/SP) \times 100$   
PR2..... Percent Recovery of MSD;  $((MSD-R1)/SP) \times 100$   
RPD..... Relative Percent Difference;  $((MS-MSD)/(MS+MSD)/2) \times 100$   
Mean PR..... Mean Percent Recovery  
Acceptance Limits ..... Determined by in-house Control Charts





Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-1228  
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046  
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843  
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

**MS/MSD DATA REPORT**

Date: 9/2/97  
Sample #: GH04471

**METHOD:** Metals  
**Instrument:** ICP  
**Matrix:** SOIL

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	10	1000	975	950	97%	94%	2.6%	95%
Arsenic	31	1000	1078	1048	105%	102%	2.8%	103%
Barium	369	1000	1364	1295	100%	93%	5.2%	96%
Beryllium	0	1000	1054	1022	105%	102%	3.1%	104%
Cadmium	0	1000	987	940	99%	94%	4.9%	96%
Chromium	61	1000	1068	1017	101%	96%	4.9%	98%
Cobalt	37	1000	1029	981	99%	94%	4.8%	97%
Copper	92	1000	993	945	90%	85%	5.0%	88%
Lead	14	1000	992	965	98%	95%	2.8%	96%
Manganese	942	1000	1915	1834	97%	89%	4.3%	93%
Molybdenum	0	1000	1001	972	100%	97%	2.9%	99%
Nickel	94	1000	1050	997	96%	90%	5.2%	93%
Selenium	0	1000	992	963	99%	96%	3.0%	98%
Silver	0	500	491	467	98%	93%	5.0%	96%
Thallium	0	1000	958	930	96%	93%	3.0%	94%
Vanadium	130	1000	1126	1071	100%	94%	5.0%	97%
Zinc	172	1000	1127	1077	96%	91%	4.5%	93%

- R1..... Result of Sample Analysis  
Sp..... Spike Concentration Added to Sample  
MS..... Matrix Spike Result  
MSD..... Matrix Spike Duplicate Result  
PR1..... Percent Recovery of MS;  $((MS-R1) / SP) \times 100$   
PR2..... Percent Recovery of MSD;  $((MSD-R1) / SP) \times 100$   
RPD..... Relative Percent Difference;  $((MS-MSD)/(MS+MSD)/2) \times 100$



## CHAIN OF CUSTODY FORM

Page \_\_\_\_\_ of \_\_\_\_\_

Client Name/Address: <i>BC. Santa Fe Springs LLC, c/o Santochi &amp; Bravate LLC.</i>			Project/PO Number: <i>9621-001-1</i>			Analysis Required							
						Modif'd TEH 8/15 - D-401/1	Modif'd TVH 8/15/8020	VOC's (8240) 8/24/0	CAM METALS:				
Project Manager: <i>Trevor Santochi</i>			Phone Number: <i>(714) 644-2690</i>										
Sampler: <i>Angel Cadoya</i>			Fax Number: <i>(714) 644-2691</i>										
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservatives							Special Instructions	
<i>CW-1</i>	<i>S</i>	<i>Brass Tube</i>	<i>1</i>	<i>8/25/97 5:26pm</i>		X	X	X	X				
<i>CN-1</i>				<i>8/29/97 3:03pm</i>		X	X	X	X				
<i>CS-1</i>				<i>8/29 pm 3:28pm</i>		X	X	X	X				
<i>CE-1</i>				<i>8/29/97 3:50pm</i>		X	X	X	X				
<i>CT-1</i>				<i>8/29/97 5:24pm</i>		X	X	X	X				
<i>CT-2</i>				<i>9/02/97 6:00pm</i>		X	X	X	X				
<i>CT-3</i>				<i>9/02/97 6:23pm</i>		X	X	X	X				
<i>CT-4</i>				<i>9/02/97 6:50pm</i>		X	X	X	X				
<i>CT-5</i>				<i>9/02/97 7:30pm</i>		X	X	X	X				
<i>CT-6</i>				<i>9/02/97 7:45</i>		X	X	X	X				
Relinquished By: <i>Angel Cadoya</i>			Date / Time: <i>8/30/97 10:25A</i>			Received by:			Date / Time:			Turnaround Time: (Check)	
												same day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	
Relinquished By:			Date / Time:			Received by:			Date / Time:			24 hours <input checked="" type="checkbox"/> 5 days <input type="checkbox"/>	
												48 hours <input type="checkbox"/> normal <input type="checkbox"/>	
Relinquished By:			Date / Time:			Received in Lab by:			Date / Time:			Sample Integrity: (Check)	
						<i>JL</i>			<i>8/30/97 10:25</i>			intact <input checked="" type="checkbox"/> on ice <input checked="" type="checkbox"/>	

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

**APPENDIX C**

**APPENDIX C**  
**RINSTATE FLUID MANIFEST**

UNIFORM HAZARDOUS  
WASTE MANIFEST

General Manifest No.

Master Document No.

2. Page 1

Information for the  
Transportation of Hazardous Materials

3. Generator Name and Mailing Address

4. Generator Phone # 707-773-1985

5. Transporter 1 Company Name

Cal Waste

6. Transporter 1 Company Name

6. Transporter 1 Company Name

6. Transporter 1 Company Name

7. Transporter 2 Company Name

7. Transporter 2 Company Name

7. Transporter 2 Company Name

8. Destination Facility Name and City/Address

TO THE RECYCLING CENTER

10. US DOT Description/Manifest Report Category/Media, Hazard Class and UN Number

11. US DOT Description/Manifest Report Category/Media, Hazard Class and UN Number

12. Special Handling Instructions and Addressed Documents

13. Generator's Certification: I hereby declare that the contents of this manifest are true and accurate to the best of my knowledge and belief. I understand that any false statement on this manifest may result in criminal penalties.

14. Generator's Certification: I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal commercially practicable to me which minimizes the present and future threat to human health and the environment OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and reduce the threat to human health and the environment.

Printed Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

15. Transporter's Authorization to Release Material

Printed Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

16. Transporter's Authorization to Release Material

Printed Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

17. Driver's Authorization to Release Material

Printed Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

18. Facility Driver or Receiver Authorization to Release Material

Printed Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

19. Driver's Authorization to Release Material

Printed Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

20. Facility Driver or Receiver Authorization to Release Material

Printed Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

DO NOT WRITE BELOW THIS LINE

OCT 28 1997

## **APPENDIX D**

**APPENDIX D**

**PHOTOGRAPHS OF THE SITE**



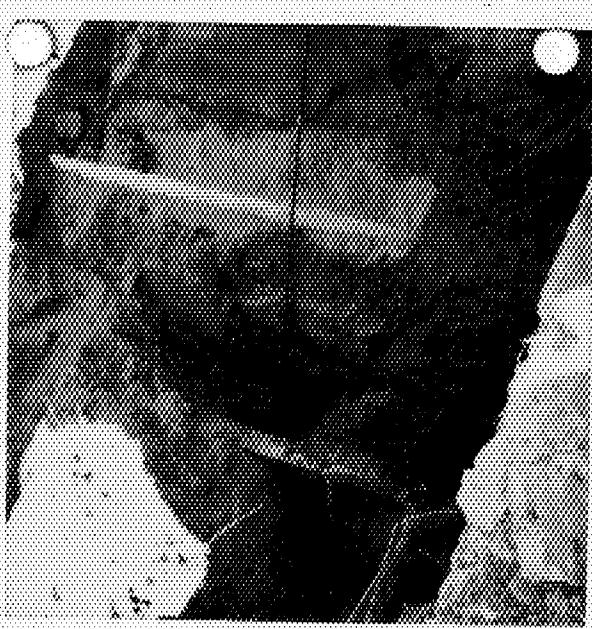
1. VIEW LOOKING WEST AT CLARIFIER PRIOR TO REMOVAL



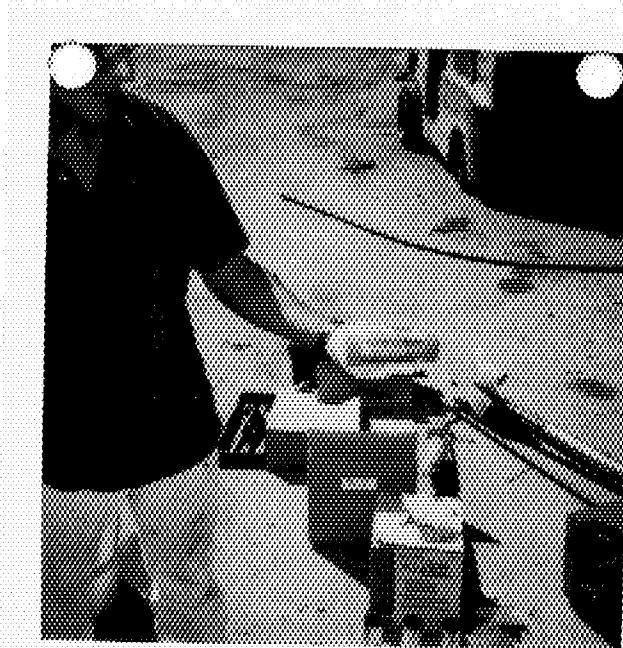
2. VIEW LOOKING NORTH AT CLARIFIER (TANK WAS LOCATED BEYOND CLARIFIER IN CENTER OF PICTURE)



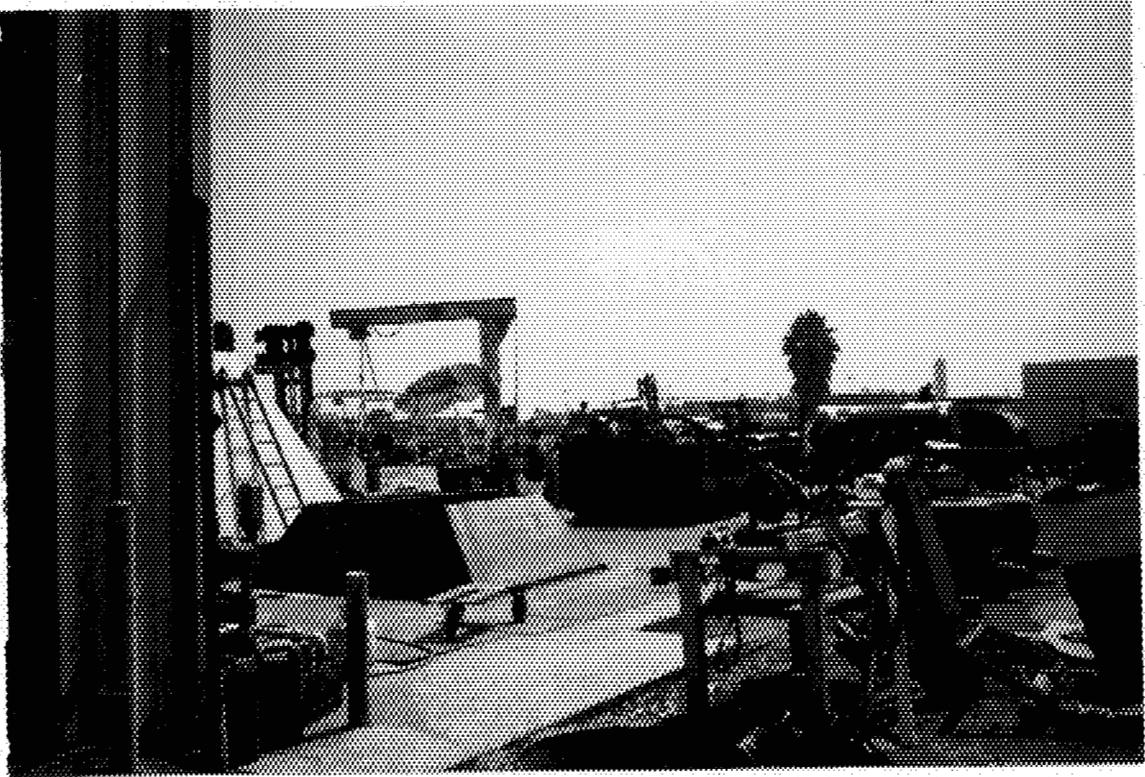
Son Cole Sample  
@ 1140 Bummers (west)



1140 Bummers  
Cassie Son Cole Sample  
(Soil end in 2 ft. base)



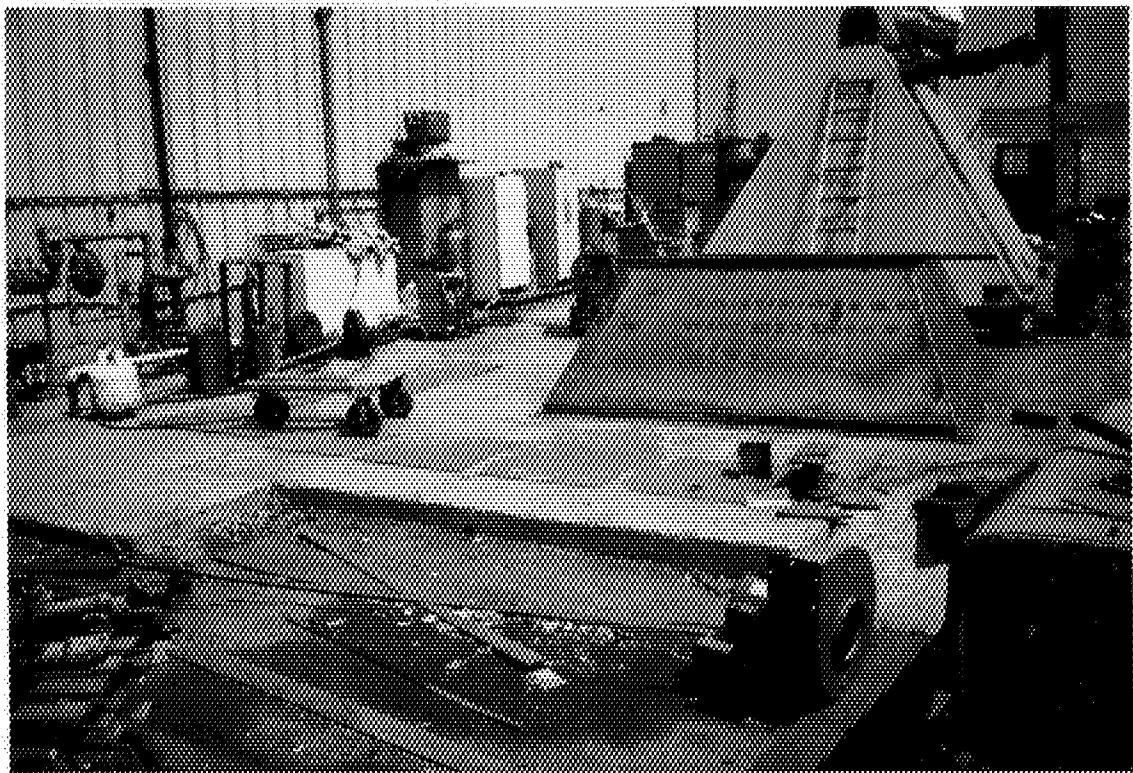
Cassie Sample  
Grass Cylindar w/ Teflon &  
CAP. Son Sample 1140 Bummers



3. VIEW OF CLARIFIER LOOKING NORTHEAST PRIOR TO REMOVAL



4. VIEW LOOKING WEST ALONG PIPE RUN PRIOR TO REMOVAL



5. CLOSE UP OF CLARIFIER PRIOR TO REMOVAL



6. VIEW FROM WEST LOOKING EAST ACROSS SITE (NOTE: PIPING RUN FROM BLOOMFIELD TO CLARIFIER WAS NOT REMOVED)